



126047

**** CONFIDENTIAL ****
 **** PRE-DECISIONAL DOCUMENT ****
 **** SUMMARY SCORESHEET ****
 **** FOR COMPUTING PROJECTED HRS SCORE ****

**** Do Not Cite or Quote ****

Site Name: GAF

Region: 2

City, County, State: Gloucester City,
Camden County NJ

Evaluator: Jill R. Dunphy

EPA ID#: NJD043292606

Date: 9/8/2008

Lat/Long: 39.53.26 North, 75.07.44 West

T/R/S:

Congressional District: First

This Scoresheet is for: Other

Scenario Name: Site Reassessment

Description: Reevaluate site conditions after remediation for NFRAP

	S pathway	S ² pathway
Ground Water Migration Pathway Score (S _{gw})	0	0
Surface Water Migration Pathway Score (S _{sw})	0	0
Soil Exposure Pathway Score (S _s)	9.09	82.6281
Air Migration Score (S _a)		
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		82.6281
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		20.657025
$/(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		4.55

u Pathways not assigned a score (explain): Groundwater was not found to be impacted at the site; therefore the groundwater pathway was not evaluated.

Groundwater was not impacted, therefore would not affect surface water and the GW to SW pathway was not evaluated. A release to air was not suspected nor observed, therefore the air pathway was not evaluated. No contamination exists in the surficial soil, therefore a surface water/overland flow pathway does not exist and was not evaluated. The only exposure pathway evaluated was soil.

DECLASSIFIED

Date: 7/25/14

Initial: JL

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Aquifer Evaluated: Potomac-Raritan-Magothy		
Likelihood of Release to an Aquifer:		
1. Observed Release	550	0
2. Potential to Release:		
2a. Containment	10	10
2b. Net Precipitation	10	1
2c. Depth to Aquifer	5	3
2d. Travel Time	35	15
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	190
3. Likelihood of Release (higher of lines 1 and 2e)	550	190
Waste Characteristics:		
4. Toxicity/Mobility	(a)	
5. Hazardous Waste Quantity	(a)	0
6. Waste Characteristics	100	0
Targets:		
7. Nearest Well	(b)	18
8. Population:		
8a. Level I Concentrations	(b)	0
8b. Level II Concentrations	(b)	0
8c. Potential Contamination	(b)	1445.6
8d. Population (lines 8a + 8b + 8c)	(b)	1445.6
9. Resources	5	5
10. Wellhead Protection Area	20	5
11. Targets (lines 7 + 8d + 9 + 10)	(b)	1473.6
Ground Water Migration Score for an Aquifer:		
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000] ^c	100	0
Ground Water Migration Pathway Score:		
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated) ^c	100	0

^a Maximum value applies to waste characteristics category^b Maximum value not applicable^c Do not round to nearest integer

TABLE 4-1 --SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Watershed Evaluated:		
Drinking Water Threat		
Likelihood of Release:		
1. Observed Release	550	0
2. Potential to Release by Overland Flow:		
2a. Containment	10	
2b. Runoff	10	
2c. Distance to Surface Water	5	
2d. Potential to Release by Overland Flow [(lines 2a(2b + 2c)]	35	
3. Potential to Release by Flood:		
3a. Containment (Flood)	10	
3b. Flood Frequency	50	
3c. Potential to Release by Flood (lines 3a x 3b)	500	
4. Potential to Release (lines 2d + 3c, subject to a maximum of 500)	500	
5. Likelihood of Release (higher of lines 1 and 4)	550	0
Waste Characteristics:		
6. Toxicity/Persistence	(a)	
7. Hazardous Waste Quantity	(a)	
8. Waste Characteristics	100	0
Targets:		
9. Nearest Intake	50	
10. Population:		
10a. Level I Concentrations	(b)	
10b. Level II Concentrations	(b)	
10c. Potential Contamination	(b)	
10d. Population (lines 10a + 10b + 10c)	(b)	
11. Resources	5	
12. Targets (lines 9 + 10d + 11)	(b)	
Drinking Water Threat Score:		
13. Drinking Water Threat Score [(lines 5x8x12)/82,500, subject to a max of 100]	100	0
Human Food Chain Threat		
Likelihood of Release:		
14. Likelihood of Release (same value as line 5)	550	0
Waste Characteristics:		
15. Toxicity/Persistence/Bioaccumulation	(a)	
16. Hazardous Waste Quantity	(a)	0
17. Waste Characteristics	1000	0
Targets:		
18. Food Chain Individual	50	
19. Population		
19a. Level I Concentration	(b)	
19b. Level II Concentration	(b)	
19c. Potential Human Food Chain Contamination	(b)	
19d. Population (lines 19a + 19b + 19c)	(b)	
20. Targets (lines 18 + 19d)	(b)	
Human Food Chain Threat Score:		
21. Human Food Chain Threat Score [(lines 14x17x20)/82500, subject to max of 100]	100	0
Environmental Threat		
Likelihood of Release:		
22. Likelihood of Release (same value as line 5)	550	0
Waste Characteristics:		
23. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)	
24. Hazardous Waste Quantity	(a)	0
25. Waste Characteristics	1000	0

Targets:

26. Sensitive Environments		
26a. Level I Concentrations	(b)	
26b. Level II Concentrations	(b)	
26c. Potential Contamination	(b)	
26d. Sensitive Environments (lines 26a + 26b + 26c)	(b)	
27. Targets (value from line 26d)	(b)	
Environmental Threat Score:		
28. Environmental Threat Score [(lines 22x25x27)/82,500 subject to a max of 60]	60	0
Surface Water Overland/Flood Migration Component Score for a Watershed		
29. Watershed Score ^c (lines 13+21+28, subject to a max of 100)	100	0
Surface Water Overland/Flood Migration Component Score		
30. Component Score (S_{sw}) ^c (highest score from line 29 for all watersheds evaluated)	100	0

^a Maximum value applies to waste characteristics category

^b Maximum value not applicable

^c Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Likelihood of Exposure:		
1. Likelihood of Exposure	550	0
Waste Characteristics:		
2. Toxicity	(a)	10000
3. Hazardous Waste Quantity	(a)	0
4. Waste Characteristics	100	0
Targets:		
5. Resident Individual	50	0
6. Resident Population:		
6a. Level I Concentrations	(b)	0
6b. Level II Concentrations	(b)	0
6c. Population (lines 6a + 6b)	(b)	0
7. Workers	15	0
8. Resources	5	5
9. Terrestrial Sensitive Environments	(c)	50
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)	55
Resident Population Threat Score		
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)	0
Nearby Population Threat		
Likelihood of Exposure:		
12. Attractiveness/Accessibility	100	10
13. Area of Contamination	100	5
14. Likelihood of Exposure	500	5
Waste Characteristics:		
15. Toxicity	(a)	10000
16. Hazardous Waste Quantity	(a)	1
17. Waste Characteristics	100	10
Targets:		
18. Nearby Individual	1	0
19. Population Within 1 Mile	(b)	15000
20. Targets (lines 18 + 19)	(b)	15000
Nearby Population Threat Score		
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)	750000
Soil Exposure Pathway Score:		
22. Pathway Score ^d (S_s), [(lines (11+21)/82,500, subject to max of 100]	100	9.09

^a Maximum value applies to waste characteristics category

^b Maximum value not applicable

^c No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60

^d Do not round to nearest integer